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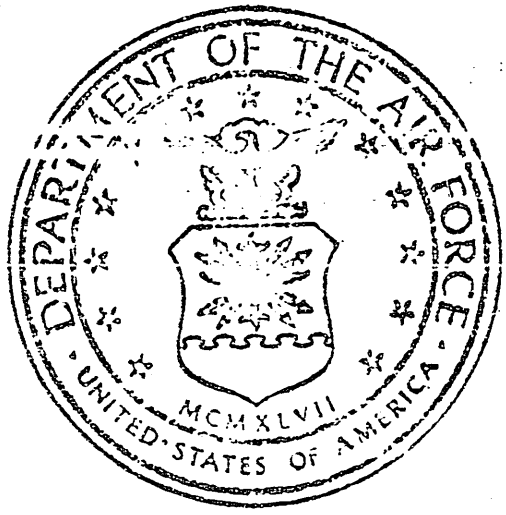
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# PROGRAM MANAGEMENT DIRECTIVE



RESTRICTED DATA  
Atomic Energy Act-1954

PRSD 0-0 5002(1)/12421F

DATE 10 AUG 1974

Classified by: Dir of Ops

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HEADQUARTERS UNITED STATES AIR FORCE  
WASHINGTON, DC 20330

PMD NO. 0-0 5002(1)/12421P DATE 10 AUG 1974  
HQ USAF PROGRAM OFFICER LTCol J.W. Smith Office Symbol MOON

PROGRAM MANAGEMENT DIRECTIVE

FOR

PROGRAM 437, THOR MISSILE LAUNCH SUPPORT

1. ~~1.~~ SPECIFIC PURPOSE: This Program Management Directive formally terminates the Program 437 Satellite Intercept System and establishes the program for THOR missile launch support for the Defense Meteorological Satellite Program (DMSP) from Vandenberg AFB, California.

2. ~~2.~~ PROGRAM SUMMARY:

a. (U) References:

(1) JTF-8 Operations Plan 100, (S-PD), 21 March 1969, Title: KIM ROCK (U).

(2) JTF-8 Operation Plan 501 (S-PD), 11 May 1970, Title: Plan for the High Altitude Test Vehicle Tests (HAF THOR/HATV) Development Test (U).

(3) SECDEF Memorandum (C), 3 December 1970, Subject: Operation RED HAT, Phase II - Johnston Island (U).

(4) High Altitude Program THOR Delivery System Reactivation Guide, 31 July 1971.

(5) Memorandum of Agreement between SAMSO and DASA for High Altitude Test, 19 April 1971.

(6) Defense Nuclear Agency Readiness Relationships Program document, 1 August 1971. (Revision being published.)

(7) ADC Operations Order 3322 (C), 1 June 1972, Title: College Launches (U).

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(8) SAF Memorandum (S), 25 October 1972, Subject: THOR Missile Support for SAFEGUARD/Site Defense Test Programs (U).

(9) AF/XOOS 301726Z November 1972 (S), Subject: Availability of THOR Boosters (U).

(10) (S-RD) National Nuclear Test Readiness Plan 1972 (U).

(11) Memorandum of Understanding between ADC and SAMSO (AFSC) (C), 24 May 1973, Subject: DSAP Launch and On-Orbit Tracking Support (U).

(12) Memorandum of Agreement between the Department of the Air Force and the Defense Nuclear Agency Concerning the Transfer of Host-Manager Responsibility at Johnston Atoll, 1 June 1973.

(13) Program Management Directive R-P 3008(2), 5 September 1973, Subject: Support of Service Development Flight Test Requirements.

(14) USAF Decision Letter D73-65, Program 437 (S), 26 September 1973 (U).

(15) Program Management Directive R-S 3-615 (2) (S), 26 September 1973, Subject: Defense System Application Program (U).

(16) PD-76-1 (S), Subject: USAF Program Bases, Units and Priorities (U), 8 January 1974.

(17) PG-76-1 (S), Subject: USAF Program Guidance (U), 8 January 1974.

(18) AF/RDSA/XOOS 182058Z January 1974 (S), Subject: Surplus THOR Booster Assets (U).

(19) AF/RDSA/XOOS 122120Z February 1974 (S), Subject: Allocation of THOR Assets (U).

(20) Minutes of Conference (S), Subject: THOR Missile Support for NNTRP 29-31 Jan 1974 (U), 12 February 1974.

(21) AF/LGYW 131923Z February 1974 (S), Subject: THOR Logistic Support (U).

(22) PC-76-1 (S), Subject: USAF Program Communications and Electronics (U), 4 March 1974.

(23) AF/RDS 201526Z March 1974, Army THOR (LV-2D) Launch Support from Johnston Island.

PARTIAL TRANSCRIPTION - ORIGINAL FOLLOWS

(34) [illeg] Division [words illeg], 29 March 1974  
(U).

(35) SAMSO/RST [illeg] April 1974, Subject: THOR  
Support for [illeg]

(36) [words illeg] Subject: Program 437 (U).

b. (U) Priority, The [illeg] category and USAF  
Precedence Rating [illeg] Program 437 will be in [illeg]  
with the program for which it is providing launch support.  
The Force/Activity Design[words illeg] and USAF Precedence  
Rating 7-10 have been assigned to the 10th [illeg] Defense  
Squadron.

c. (S) The mission objectives of the programs  
supported by Program 437 are as follows:

(1) Defense Meteorological Satellite Program  
(DMSP) provides high quality recorded visual and infrared  
weather data from two strategically positioned satellites.  
Direct real time readouts of local area weather data are  
provided to key locations worldwide for tactical support.

(2) SAFEGUARD Ballistic Missile Defense [illeg]  
Program/Site Defense Prototype Demonstration (BMDT/SDPD) are  
research and development programs designed to maintain a  
qualitative lead in ABM technology over the Soviet Union.  
BMDT is directed to the development and verification of  
Soviet threat models for Site Defense. The objective of  
SDPD is to demonstrate a development prototype ABM system  
specifically [illeg] for the defense of MINUTEMAN, [words  
illeg] more advanced ABM system for the defense of the  
National [words illeg] if required.

[6 lines illeg]

d. (S) [words illeg]  
FY 75 FY 75 FY 77 FY 78 FY 79  
10th 1 [line illeg]

e. (S) [illeg] of Program

(1) [illeg] Program 437, THOR Missile Launch  
Support:

3.

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(a) ~~(S)~~ USAF Decision Letter D/3-65, Program 437, dated 26 September 1973, phased out Program 437 satellite intercept mission 30 June 1974, while retaining the capability to provide THOR launch support for the Defense Meteorological Satellite Program, National Nuclear Test Readiness Program and

(b) ~~(S)~~ There are presently a total of 20 flightworthy THOR boosters in the USAF inventory. Eight launch vehicle (LV)-2F model SM-75s and five standard launch vehicle (SLV)-2As are allocated to DMSP. In addition to the LV-2Fs and SLV-2As, there are seven LV-2D model SM-75s. Five LV-2Ds are allocated to the Army's SAGEGUARD EMDT and SDPD programs. The remaining two LV-2Ds will be allocated to users according to program priority.

(c) ~~(S)~~ Although the THOR is the currently approved booster for HAF, there are no THOR boosters specifically allocated to the support of NNTRP. The LV-2Fs, SLV-2As and launch vehicles would require extensive modification for HAF application. The LV-2D boosters require little or no modification for use in NNTRP. The capability of the USAF to provide LV-2D launch support to NNTRP is contingent upon the number of THOR LV-2Ds available at the time (GO) NNTRP is implemented and the program priority of THOR using agencies. Based on the present programmed THOR use, there is a sufficient number of LV-2Ds to support the 1972 NNTRP through FY 77.

(d) ~~(S)~~ The Defense Nuclear Agency (DNA) and the Atomic Energy Commission (AEC) have agreed (reference 2a(20)) to jointly conduct a study by 1 September 1974, for the selection

(2) ~~(S)~~ National Nuclear Test Readiness Program:

(a) ~~(S)~~ The initial requirement for launch support for nuclear test readiness was established in the NNTRP of 1968. This program approved development of a high altitude program by 1 January 1972, using capability inherent in Program 437 Satellite Intercept System. Events with THOR launch response of GO plus six months or earlier were planned. The high altitude test vehicle was developed and tested during 1970 to satisfy this requirement.

## PARTIAL TRANSCRIPTION - ORIGINAL FOLLOWS

(b) The 1969 NNTRP was further developed through supporting plans and numerous agreements and other arrangements [words illeg]

(c) The [illeg] NNTRP again required [illeg] THOR launch support through [illeg] until an alternate booster becomes available. This program [words illeg] a requirement for four high altitude THOR boosted [words illeg] starting at GO plus 12 months. This plan was given [illeg] approval and guidance was given for the development of a more [illeg] program.

(d) On [illeg] March, 1974, [illeg] to DOD a proposed [words illeg]. The proposed plan requires seven THOR boosters, six launches plus one [illeg]. The first event, a near simultaneous specification launch of two (dual) THOR vehicles with [words excised] is scheduled for GO plus 210 days. This would be followed by a single launch at GO plus 235 days, a dual launch at GO plus 249 days and a single launch at GO plus 263 days.

### (3) [2 words illeg] logical Satellite Program

(a) Prior [illeg] partial declassification in 1972, DMSP was known as [words excised] Originally established in 1961 to provide daily [words illeg] data [words excised] the [1 line illeg] advanced and operationally responsive polar-orbiting [illeg] satellite system.

(b) [illeg] the first launch in 1962 until April 1967, [excised] satellites were launched from Vandenberg AFB by the [illeg] support [illeg] (SAC). On [illeg] April 1967, this Group (ADC) [1 line illeg] fully launched [words illeg] DMS- satellites.

[4 lines illeg]

(4) Ballistic [illeg] Defense [words illeg] Defense [words illeg]

[3 lines illeg]

through support of plans and arrangements for the development of the region.

The region is a high altitude area with a population of about 100,000. The region is a high altitude area with a population of about 100,000. The region is a high altitude area with a population of about 100,000.

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the available data base on fragmentation of reentering ICBM and IRBM/SLBM tanks which closely approximate Soviet threat complexes. The BMDTP requires launch support for three THOR LV-2D boosters in FY 76 - two launches plus one spare. The launches are presently scheduled for September and December 1975.

(b) (8) The SDPD program will develop, test and demonstrate the key elements of the tactical system to prove its capability to cope with the designed threat. Two THOR missile launches from Johnston Atoll AFB to the Kwajalein complex are planned for FY 78. In the event the spare THOR booster is not required for the programmed BMDT or SDPD, it will be launched in FY 78 to obtain additional data. A more definitive date for these launches is expected in October 1974.

(c) (C) USAF THOR launch support is contingent upon the Army acquiring a waiver to the firing restriction now imposed on Johnston Atoll AFB by DOD (ref: 2a(3)); obtaining the required missile payloads; and reimbursing the Air Force for all launch costs including, for example, propellants, booster processing, required maintenance, overhauls, etc., associated with this support, and USAF O&M costs of maintaining the Johnston Atoll THOR launch complex, that are reimbursable to DNA. This reimbursement is effective starting FY 1/75 continuing until the Army's requirement for this support is terminated.

### 3. (U) PROGRAM MANAGEMENT:

#### a. HQ USAF will:

(1) Provide essential policy and program guidance and assign Air Force command responsibilities.

(2) Budget for and provide necessary funds for PE 12421F.

(3) Allocate THOR boosters to using agencies.

(4) Approve Operational Employment Plan.

#### b. AFSC will:

(1) Manage the program as the implementing command and serve as the USAF point-of-contact and management agency for providing THOR boosters, aerospace ground equipment, launch facility modification reviews and aerospace vehicle modifications, including software and ground guidance modification in support of the HAP (as part of the NNTRP), DMSP, BMDT, AND SDPD programs.

(4) Assist ATC in formulating required formal training requirements.

(5) Assist AFLC in the development of the Integrated Logistic Support Plan.

d. ATC will provide formal training to USAF personnel as required for THOR launch support.

e. AFLC will:

(1) Define and budget for spares/equipment required to support the program.

(2) Prepare the Integrated Logistics Support Plan.

4. (S) Schedules:

<u>Event</u>	<u>On or Before Date</u>
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a. (U) FOC	1 Jul 1974
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b. (U) AFSC Publish FMP	1 Nov 1974
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c. (U) ADC Submit OEP to HQ USAF	2 Dec 1974
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d. (U) AFLC Publish Integrated Logistics Support Plan	2 Dec 1974
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e. (S) Launch Support Readiness Requirements

Minimum Pre-launch Notification

(1) DMSP	GO plus 16 days
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(2) BMDT/SDPD	GO plus 12 months
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(3) HAP	GO plus 12 months
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5. (S) FINANCIAL

a. (S) Funding (Approved - POM 19 May 1974)

(\$ IN THOUSANDS)	<u>FY 75</u>	<u>FY 76</u>	<u>FY 77</u>	<u>FY 78</u>	<u>FY 79</u>	<u>FY 80</u>
3400	794	672	671	689	670	670
3500	2,711	2,653	2,637	2,632	2,639	2,634
TOA	3,505	3,325	3,308	3,301	3,309	3,304

b. (U) Funding of DMSP launch support will be IAW reference 2a(11).

c. (U) Funding of BMDT/SDPD launch support will be IAW references 2a(8), 2a(23) and 2a(25) as amplified by paragraph 4c above.

d. (U) Funding of HAP launch support will be IAW Assistant Secretary of Defense Memorandum, 24 April 1964, subject: Policy on Financial Support of Operating Expenses Incident to Conduct of Atomic Weapons Tests, and ref 2a(5).

## 6. (U) LOGISTICS

a. AFLC, in conjunction with AFSC and ADC, will prepare and publish an Integrated Logistics Support Plan IAW AFM 800-8. The Integrated Logistic Support Plan will describe maintenance and supply concepts for THOR boosters, launch emplacements, ground guidance radars, automated data processing equipment and displays. A copy of this plan will be forwarded to AF/LGYN for review.

b. AFLC will fund or furnish investment supply support and assist in defining the task for technical supply support in order to insure economy and integrity of the supply system. Government sources of supply will be used to the maximum extent practical before resorting to direct contractor support. Every effort will be made to insure that no new items will be introduced into the DOD inventory as the result of this program.

7. (U) PERSONNEL AND TRAINING: ADC will determine manning requirements IAW AFR 26-10 and AFR 26-12 and in consonance with mission requirements. Manning will support simultaneous launch operations from Vandenberg AFB and Johnston Atoll AFB. Manning will be programmed from within current ADC resources. ATC in conjunction with AFSC and ADC will establish detailed training plans and identify training support requirements.

8. (U) DATA AUTOMATION: HQ USAF (AF/ACDC) will be involved in this program as an Office of Corollary Responsibility for policy guidance concerning ADP resources. Guidance contained in AFR 300-2, 300-12 and 800-14, and ASPRs will be applied to the ADP elements of the program as appropriate.

9. (U) GENERAL INFORMATION: AF/XOOSN is designated the Air Staff Office of Primary Responsibility and Program Element Monitor for Program Element 12421F. Requests for additional program management direction will be forwarded to AF/XOOSN. Requests should fully delineate the scope of the required effort.